

Q590NAS3

TECHNICAL BULLETIN

19 MAY 2017



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NOTE: The information in Technical Bulletins is intended for use by trained, professional Technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these Technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by 'do-it-yourselfers'. If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether this bulletin applies to a specific vehicle.

INFORMATION

Changes are highlighted in blue

SECTION:

204-05: Vehicle Dynamic Suspension

SUBJECT/CONCERN:

Service Action: Air Suspension Compressor Blocked

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Range Rover Sport (LW)	2014	384430-399999	Solihull	Vehicles With: Dynamic Suspension
Range Rover Sport (LW)	2014-2015	500023-512246	Solihull	Vehicles With: Dynamic Suspension
Range Rover Sport (LW)	2014-2015	600025-606832	Solihull	Vehicles With: Dynamic Suspension
Range Rover (LG)	2014-2015	181688-206213	Solihull	Vehicles With: Dynamic Suspension

MARKETS:

NORTH AMERICA

CONDITION SUMMARY:**SITUATION:**

An issue has been identified on a limited number of vehicles within the listed Affected Vehicle Range which may experience an amber or red warning symbol and associated text in the Instrument Cluster.

- Amber symbol - no change to vehicle or suspension performance, but suspension unable to lower on demand; warning message 'Suspension fault' displayed.

- Red symbol - vehicle height is above nominal standard ride height and unable to lower on demand; warning message 'Do not exceed 30 MPH' displayed.

ACTION:

Retailers are required to **HOLD** affected new vehicles that are within your control and refrain from releasing the vehicles for **new vehicle sale** pending completion of the Service Instruction detailed in this Technical Bulletin. Unsold vehicles should have this performed as part of the Pre-Delivery Inspection (PDI) process but **must** have it completed prior to vehicle handover to the customer.

Affected vehicles already in the hands of customers should be updated at the next available opportunity.

PARTS:

NOTES:

- **Order only the expected percentage demand of parts identified.**
- **Suspension air supply unit may be referred to as Air suspension compressor.**

DESCRIPTION	PART NO. /SUNDRY CODE	QTY. /VALUE	EXPECTED % OF VEHICLES REQUIRING PARTS
Suspension compressor (suspension air supply unit) - vehicles without 7 seats	LR069691	1	21
Suspension compressor (suspension air supply unit) - vehicles with 7 seats	LR069693	1	1
Valve connector	LR041295	1	22
Air suspension compressor (suspension air supply unit)	LR088858	1	78

silencer

SPECIAL TOOLS:



Jaguar Land Rover-approved diagnostic tool with latest SDD software and Calibration File



Jaguar Land Rover-approved Midtronics Battery Power Supply

Refer to Workshop Manual/Service Instruction for any required special tools

WARRANTY:

NOTE:

Check DDW to ensure that a vehicle is affected by this program prior to undertaking any rework action.

At the time of confirming a booking for vehicle repair, ensure that **all** outstanding Recall and Service Actions are identified to ensure the correct parts are available and adequate workshop time is allocated for repairs to be completed at one visit.

Warranty claims must be submitted quoting Program Code **Q590** together with the relevant Option Code from the table. SRO and parts information is included for information only. The Option Code (s) that allows for the drive in / drive out allowance can only be claimed if the vehicle is brought back into the workshop for this action alone to be undertaken.

This program is valid for a limited time only. Warranty claims with a repair date prior to the **31 July 2018** closure date must be submitted or payment within 30 calendar days of completion of the repair.

Repair procedures are under constant review and therefore times / prices are subject to change; those quoted here must be taken as guidance only. Refer to TOPIx to obtain the latest repair time.

NOTE:

Suspension air supply unit may be referred to as Air suspension compressor.

PROGRAM CODE	OPTION CODE	MODEL	DESCRIPTION	SRO	TIME (HOURS)	PARTS /SUNDR CODE
Q590	B	All	Silencer - Air exhaust -	64.50.01 60.90.21	0.20 0.20	LR08885 -

			renew Configure the chassis control module			
Q590	C	All	Silencer - Air exhaust - renew Configure the chassis control module Drive in/drive out	64.50.01 60.90.21 02.02.02	0.20 0.20 0.20	LR08885 - -
Q590	D	All	Silencer - Air exhaust - renew Configure the chassis control module Disengage and reengage Transit Mode	64.50.01 60.90.21 86.90.89.47	0.20 0.20 0.20	LR08885 - -
Q590	E	All	Silencer - Air exhaust - renew Configure the chassis control module Disengage and reengage Transit Mode Drive in/drive out	64.50.01 60.90.21 86.90.89.47 02.02.02	0.20 0.20 0.20 0.20	LR08885 - - -
Q590	K	Range Rover Sport (L494; vehicles without 7 seats); Range Rover (L405)	Compressor - Renew Configure the chassis control module	60.50.10 60.90.21	0.30 0.20	LR04129 LR06969 -
Q590	L	Range Rover	Compressor - Renew	60.50.10	0.30	LR04129 LR06969

		Sport (L494; vehicles without 7 seats); Range Rover (L405)	Configure the chassis control module Drive in/drive out	60.90.21 02.02.02	0.20 0.20	- -
Q590	M	Range Rover Sport (L494; vehicles without 7 seats); Range Rover (L405)	Compressor - Renew Configure the chassis control module Disengage and reengage Transit Mode	60.50.10 60.90.21 86.90.89.47	0.30 0.20 0.20	LR04129 LR06969 - -
Q590	N	Range Rover Sport (L494; vehicles without 7 seats); Range Rover (L405)	Compressor - Renew Configure the chassis control module Disengage and reengage Transit Mode Drive in/drive out	60.50.10 60.90.21 86.90.89.47 02.02.02	0.30 0.20 0.20 0.20	LR04129 LR06969 - - -
Q590	P	Range Rover Sport (L494; vehicles with 7 seats)	Compressor - Renew Configure the chassis control module	60.50.10.50 60.90.21	0.30 0.20	LR04129 LR06969 -
Q590	R	Range Rover Sport (L494; vehicles with 7 seats)	Compressor - Renew Configure the chassis control module Drive in/drive out	60.50.10.50 60.90.21 02.02.02	0.30 0.20 0.20	LR04129 LR06969 - -
Q590	T	Range	Compressor -	60.50.10.50	0.30	LR04129

		Rover Sport (L494; vehicles with 7 seats)	Renew Configure the chassis control module Disengage and reengage Transit Mode	60.90.21 86.90.89.47	0.20 0.20	LR06969 - -
Q590	V	Range Rover Sport (L494; vehicles with 7 seats)	Compressor - Renew Configure the chassis control module Disengage and reengage Transit Mode Drive in/drive out	60.50.10.50 60.90.21 86.90.89.47 02.02.02	0.30 0.20 0.20 0.20	LR04129 LR06969 - - -

Normal Warranty policies and procedures apply.

SERVICE INSTRUCTION:

ⓘ CAUTIONS:

- A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle battery during diagnosis / module programming.
- All ignition ON/OFF requests must be carried out; failure to perform these steps may cause damage to control modules in the vehicle.

⚠ NOTE:

The Jaguar Land Rover-approved diagnostic tool must be loaded with SDD149.03 v.267 or later.

- 1 Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle battery.
- 2 Turn ignition ON (engine not running).
- 3 Connect the Jaguar Land Rover-approved diagnostic tool to the vehicle and begin a new session.
- 4 Follow the on-screen prompts, allowing the diagnostic tool to read the VIN and identify the vehicle and initiating the data collect sequence.
 - 2 If the vehicle is not in **Transportation Mode** , go to the next Step.
 - 4 If the vehicle is in **Transportation Mode** , set the vehicle to ' **Normal operation mode** ' .
- 5 Select **Diagnosis** from the Session Type screen.
- 6 Select the **Selected Symptoms** tab, and then select the following:

Chassis - Suspension system - Vehicle dynamic suspension
- 7 Read and close any publication from the list of recommended candidates to expose the Extras tab.
- 8 Select the **Extras** tab.
- 9 From the Recommendations tab, select **Run** to perform the **Configure existing module - Chassis control module** option.
- 10 Follow all on-screen instructions to complete this task, ensuring all Diagnostic Trouble Codes (DTC) are cleared.

 **CAUTION:**

Before disconnecting or removing components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

 NOTES:

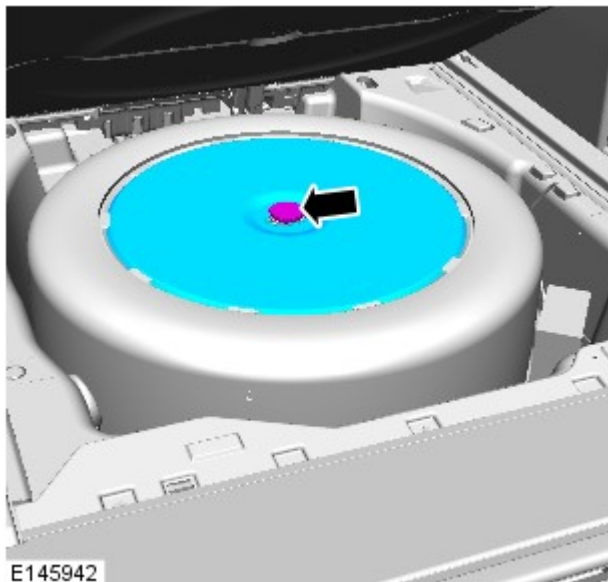
- Removal steps in this procedure may contain installation details.
- Parts shown removed for clarity.

11 Open the tailgate.

12 Position the luggage compartment floor to the side.

13  NOTE:

Vehicles with spare wheel and tire assembly only.



Remove the spare wheel retainer.

14

 WARNING:

This step may require the assistance of another Technician.

△ NOTE:

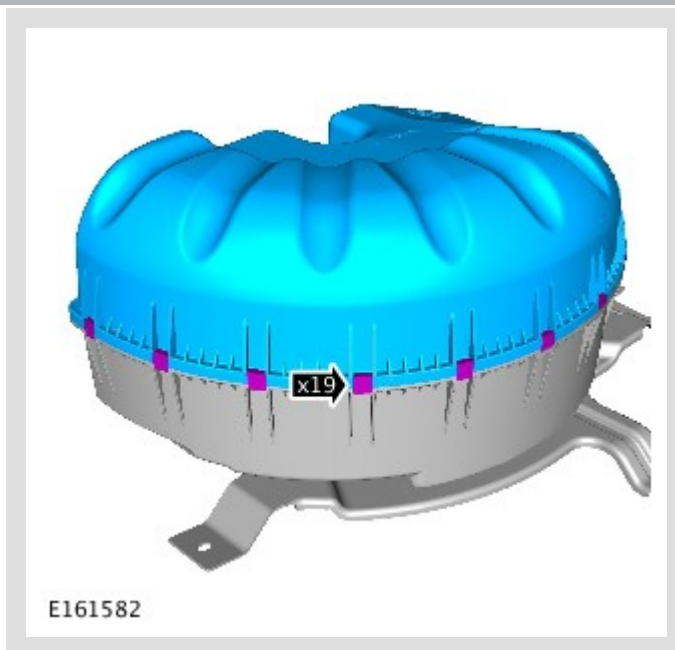
Vehicles with spare wheel and tire assembly only.

Remove the spare wheel and tire assembly

△ NOTE:

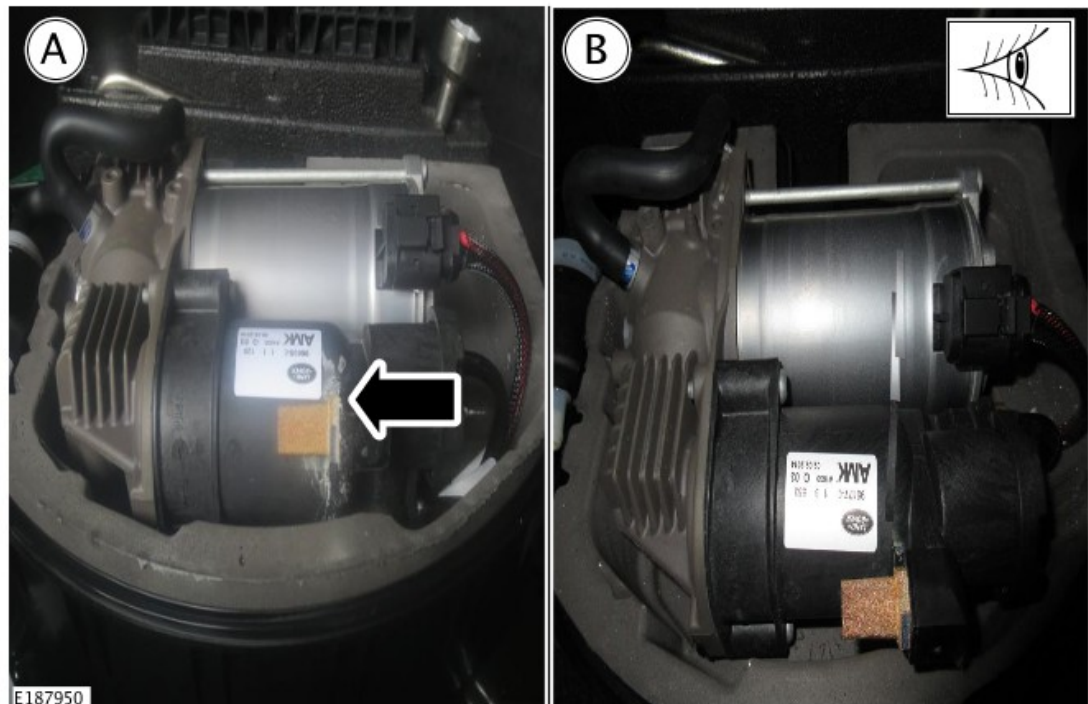
Suspension air supply unit may be referred to as Air suspension compressor.

15



Remove the suspension air supply unit cover.

16



Check for white powder at the suspension air supply unit silencer.

If white powder is present at the silencer **(A)** ,
replace the suspension air supply unit (see
TOPIx Workshop Manual section 204-05:
Vehicle Dynamic Suspension).

Once completed, go to Step 18.

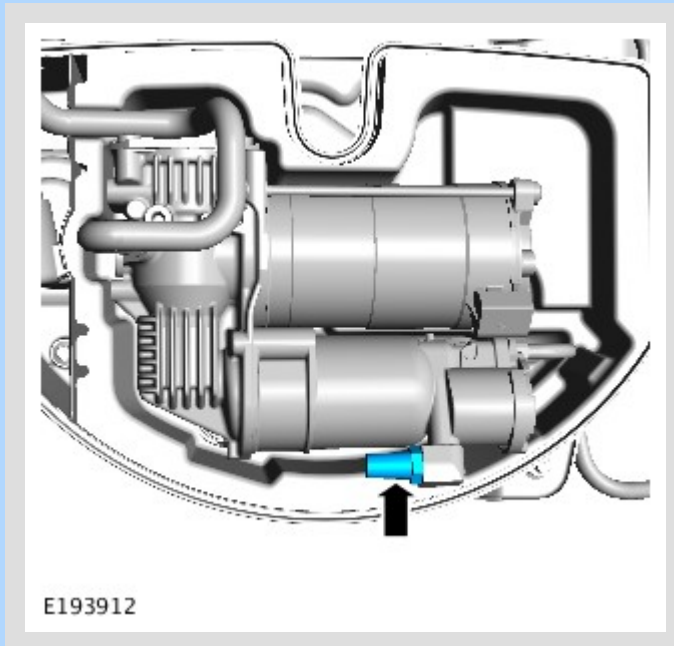
If no white powder is present at the silencer **(B)**
, go to Step 17.

17

ⓘ CAUTION:

**Make sure to support the plastic casing when
unscrewing the air suspension compressor silencer;**

there is a possibility of damaging the suspension air supply unit silencer if not careful.

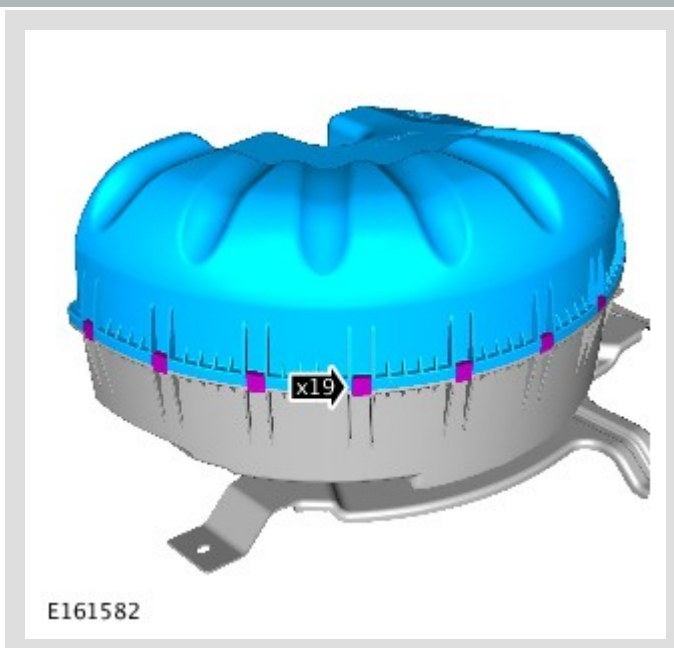


Replace the suspension air supply unit silencer.

- 1 Remove the suspension air supply unit silencer from the suspension air supply unit.
- 2 Install the suspension air supply unit silencer into the suspension air supply unit.

Torque: **2Nm** .

18



Install the suspension air supply unit cover.

19

⚠ WARNING:

This step may require the assistance of another Technician.

△ NOTE:

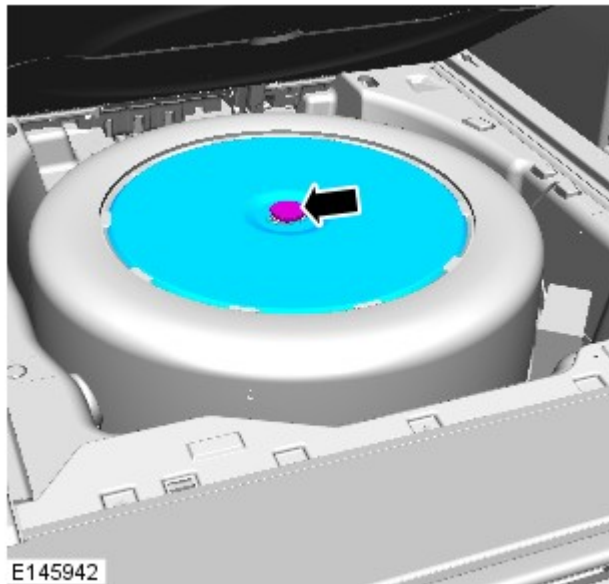
Vehicles with spare wheel and tire assembly only.

Install the spare wheel and tire assembly

20

△ NOTE:

Vehicles with spare wheel and tire assembly only.



Install the spare wheel retainer.

21

Position the luggage compartment floor into place.

22

Close the tailgate.

23 Select the **Session** tab and then select the **Close Session** option.

1 If required, reset the vehicle to 'Transportation mode'.

24 Disconnect the diagnostic tool and battery power supply from the vehicle.